1/6/88 A2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 65 - No. 12 DECEMBER 1987

## PAPER AND PAPERBOARD PRODUCTION: TREND HOLDS STEADY

At a record-high 74 million tons per year, production of paper and paperboard in the first eleven months of 1987 was 4.9% higher than last year. The growth was fairly well distributed among most of the major grades. (See table on page 3.) For the most part, the grades that were doing well earlier this year are still maintaining their strong position, while those grades that were faltering continue to exhibit weakness.

While the distribution of this growth has been well shared among the major grades, the timing has varied from grade to grade. The greatest portion of this growth occurred in the first eight months of 1987.

Paper: Paper production grew 1.3 million tons through November. Coated papers accounted for 42% of the total, uncoated free sheet 38%, tissue 15%, newsprint 14% and kraft paper -17%.

In the first eight months of 1987 production was 935,000 tons higher than in the same period last year. Coated papers contributed 47% of this growth, uncoated free sheet papers 35%, tissue paper 14% and newsprint 11%, while the decline in shipments of unbleached kraft papers reduced the growth total by 19%.

In the September-November period total paper production was 386,000 tons above its year earlier total, with coated papers and uncoated free sheet accounting for most of the growth. The distribution among these two grades reversed, with uncoated free sheet paper responsible for 46% of this growth, coated papers 29%. Newsprint and tissue accounted for 38% of this three months growth, compared with 25% of the growth in the first eight months of 1987. Here too, a decline in shipments of unbleached kraft papers offset some of this growth.

Paperboard: For the entire eleven months of 1987, paperboard production grew 1.9 million tons from the same period last year. The distribution of this growth among the various grades was as follows: 59% unbleached linerboard, 23% recycled paperboard, 12% semichemical, and 6% solid bleached paperboard.

Continued on page 2

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Similarly, total paperboard production in the first eight months of 1987 was 1.4 million tons higher than in the comparable 1986 period. Unbleached linerboard was the largest contributor to this growth, accounting for 55% of this total. Recycled paperboard contributed 22%; semichemical paperboard 13%; solid bleached paperboard 8%. The same trend continued in the September-November period, with unbleached paperboard accounting for 72% of the total growth and recycled paperboard 28%. The growth in semichemical paperboard declined to 8%; that of solid bleached to zero.

## FIBROUS RAW MATERIALS

**Market Pulp:** Production of chemical paper grade market pulp declined 10.2% in November, to 521,000 tons, following an October-November pattern evident throughout the past decade. Although capacity utilization for chemical grade market pulp fell to 94% in November from 101% the previous month, operating rates for this segment of the pulp industry averaged 100% of reported capacity during the first 11 months of the year. Cumulative production of chemical grade market pulp through November of 1987 exceeded its year-ago rate by 7.4%.

Both domestic and export shipments of chemical paper grade market pulp also declined from their October level in November. Because shipments trailed production, inventories of chemical grade market pulp rose by 26,000 tons in November, and days of supply climbed from 14 at the end of October to 16 at the end of November.

**Total Pulp:** Total U.S. wood pulp production ran at an annualized rate of 59.5 million tons through October of 1987, which was 4.7% ahead of its year-ago rate. That increase was in line with consumption of wood pulp at paper and paperboard mills, which posted a cumulative year-to-date gain of 4.5%.

## CAPITAL EXPENDITURES

Expenditures on new plant and equipment by U.S. paper companies are expected to rise by 25% from 1987 to 1988, going from $8.96 billion to $11.22 billion, according to a survey published by the Department of Commerce on Dec. 17, 1987. This report, part of their quarterly analysis of plant and equipment expenditures by U.S. industries, showed the paper industry gain to be the largest among all U. S. industries, 3.5 times the 7.3% gain reported for all industries and nearly twice the 13% gain expected in total non-durable goods industries.

The report also showed a strong 13.6% gain in these expenditures by paper companies from the third to fourth quarters of 1987, bringing the fourth quarter rate to $10.16 billion per year. Expenditures are expected to rise throughout the first half of 1988, reaching $11.58 billion per year in the second quarter and then levelling off to $11.5 billion per year in the second half.

Continued on page 11

# PAPER AND PAPERBOARD STATISTICS

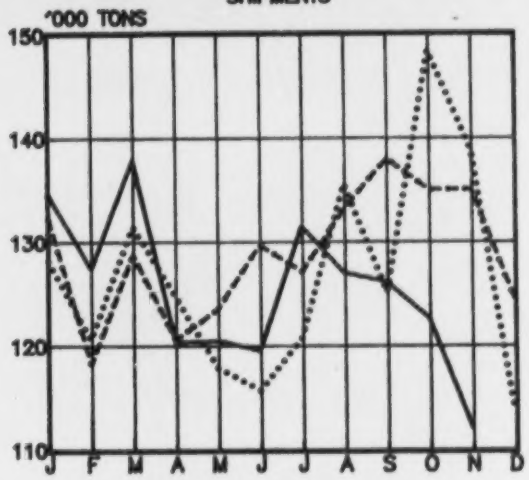
## PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Short Tons)

| | YEAR 1985 | YEAR 1986 | AUGUST 1987 (P) | SEPTEMBER 1987 (P) | OCTOBER 1987 (P) | NOVEMBER 1987 (P) | Annual Rate Y-T-D 1987 | % Change From same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| **PAPER** | | | | | | | | |
| Newsprint - Production | 5,428 | 5,638 | 498 | 494 | 508 | 482 | 5,828 | 3.6 |
| - Shipments | 5,431 | 5,638 | 495 | 498 | 502 | 484 | 5,832 | 3.7 |
| Printing & Writing Sum (R) | 18,423 | 19,681 | 1,792 | 1,762 | 1,808 | 1,729 | 20,674 | 5.6 |
| Groundwood Paper - Shipments (R) | 1,521 | 1,540 | 127 | 126 | 123 | 112 | 1,505 | -2.5 |
| - New Orders (R) | 1,477 | 1,553 | 136 | 130 | 118 | 109 | 1,524 | -2.1 |
| -Unfilled Orders (R) | 106 | 124 | 148 | 153 | 147 | 145 | 145 | 23.7 |
| Coated Papers - Shipments (R) | 5,875 | 6,263 | 597 | 591 | 602 | 581 | 6,841 | 9.7 |
| - New Orders (R) | 5,642 | 6,334 | 632 | 568 | 628 | 526 | 7,008 | 10.4 |
| - Unfilled Orders (R) | 393 | 469 | 678 | 663 | 692 | 635 | 635 | 30.0 |
| Unctd Free Sheet - Shipments (R) | 9,690 | 10,410 | 951 | 928 | 961 | 926 | 10,949 | 5.3 |
| - New Orders (R) | 9,704 | 10,485 | 996 | 943 | 1,020 | 928 | 11,073 | 5.2 |
| - Unfilled Orders (R) | 589 | 587 | 625 | 652 | 704 | 701 | 701 | 17.6 |
| Thin Papers - Shipments | 262 | 247 | 17 | 19 | 18 | 17 | 224 | -10.1 |
| Cotton Fiber Paper - Shipments | 144 | 152 | 13 | 14 | 14 | 11 | 161 | 5.4 |
| Bleached Bristols - Production | 930 | 998 | 86 | 84 | 89 | 82 | 994 | -0.1 |
| Tissue Paper - Production | 4,941 | 5,095 | 457 | 447 | 458 | 454 | 5,308 | 4.1 |
| Total Packaging & Other Paper | 5,284 | 5,117 | 416 | 420 | 435 | 419 | 5,056 | -1.2 |
| Unbl. Kraft Paper - Shipments | 3,403 | 3,303 | 249 | 258 | 259 | 243 | 3,068 | -7.3 |
| Other Paper - Production | 1,881 | 1,814 | 167 | 161 | 176 | 176 | 1,988 | 9.9 |
| TOTAL PAPER-Production-Unadj. | 33,996 | 35,443 | 3,163 | 3,123 | 3,209 | 3,083 | 36,866 | 4.1 |
| -Production-S.A. | | | 3.074 | 3.078 | 3.083 | 3.087 | 36,695 | 4.1 |
| **PAPERBOARD - PRODUCTION** | | | | | | | | |
| Solid Wood Pulp Furnish | 25,484 | 27,336 | 2,548 | 2,424 | 2,405 | 2,331 | 28,828 | 5.7 |
| Total Unbl. Kraft Paperboard | 16,368 | 17,689 | 1,670 | 1,613 | 1,566 | 1,528 | 18,815 | 6.7 |
| Unbl. Kraft Linerboard (1) | 15,183 | 16,402 | 1,558 | 1,521 | 1,485 | 1,444 | 17,538 | 7.4 |
| Production for Export | 1,838 | 2,246 | 221 | 186 | 176 | 139 | 2,238 | 0.3 |
| Other Unbl. Kraft Paperboard | 1,184 | 1,287 | 112 | 92 | 81 | 84 | 1,276 | -1.8 |
| Semichemical Paperboard | 5,088 | 5,376 | 481 | 469 | 474 | 458 | 5,625 | 4.4 |
| Production for Export | 189 | 213 | 11 | 14 | 13 | 11 | 190 | -10.3 |
| Solid Bleached Paperboard | 3,948 | 4,271 | 397 | 342 | 365 | 345 | 4,389 | 2.9 |
| Production for Export | 466 | 569 | 46 | 47 | 43 | 46 | 563 | -0.8 |
| Recycled Paperboard | 7,639 | 8,083 | 752 | 705 | 772 | 741 | 8,623 | 6.0 |
| Production for Export | 26 | 70 | 5 | 5 | 5 | 9 | 60 | -17.4 |
| TOTAL PAPERBOARD-Prod.-Unadj. | 33,034 | 35,419 | 3,300 | 3,129 | 3,177 | 3,071 | 37,451 | 5.7 |
| - Containerboard Prod.(Dom. Use) | 20,842 | 21,426 | 2,004 | 1,976 | 1,978 | 1,938 | 22,996 | 7.6 |
| - Boxboard Prod.(Dom. Use) (2) | 5,673 | 5,903 | 559 | 492 | 538 | 507 | 6,169 | 4.1 |
| - All Other P'bd Prod.(D.U.) (2) | 4,888 | 4,992 | 453 | 418 | 433 | 428 | 5,236 | 4.8 |
| - Total Paperbd Prod. for Export | 2,511 | 3,097 | 283 | 251 | 236 | 206 | 3,051 | -1.1 |
| TOTAL PAPERBOARD PROD.- S.A. | | | 3,129 | 3,139 | 3,148 | 3,157 | 37,273 | 5.7 |
| TOTAL PAPER AND PAPERBOARD | 67,030 | 70,861 | 6,463 | 6,253 | 6,385 | 6,155 | 74,317 | 4.9 |
| Production - actual | | | 6,204 | 6,217 | 6,230 | 6,243 | 73,967 | 4.9 |
| Production - S.A. | | | | | | | | |

(1) Includes all exports of kraft paperboard. R - Revised P - Preliminary S.A. - Seasonally Adjusted
(2) Data for unbl. kraft folding boxboard incl. in All Other P'bd.

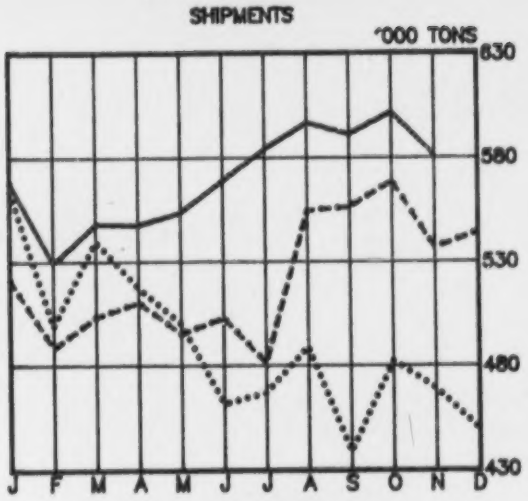
## GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



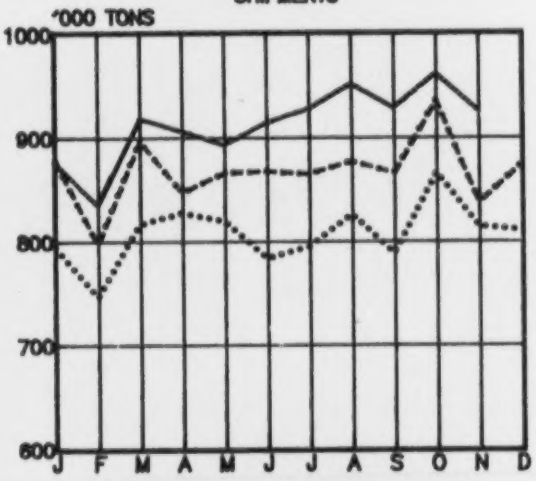

## COATED PAPER

SHIPMENTS



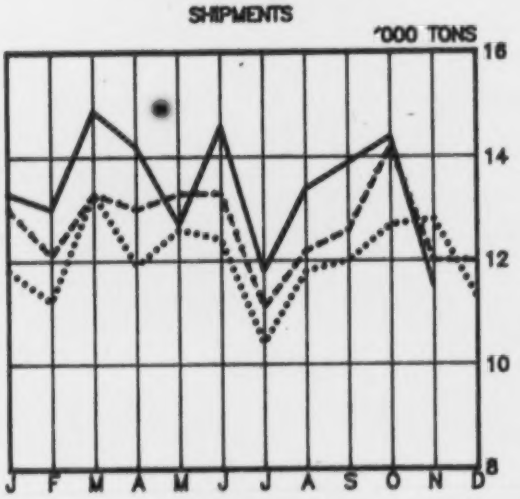

## UNCOATED FREE SHEET PAPERS

SHIPMENTS



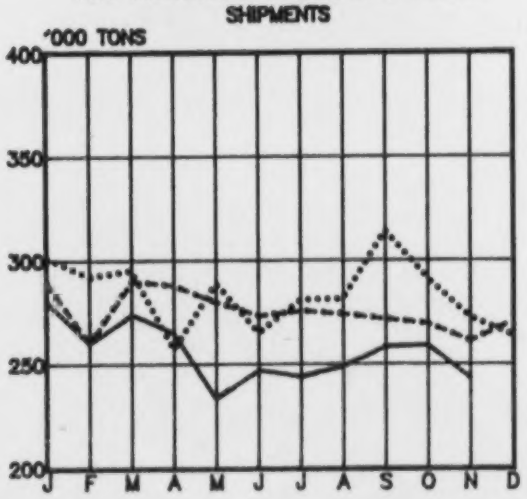

## COTTON FIBER PAPER

SHIPMENTS



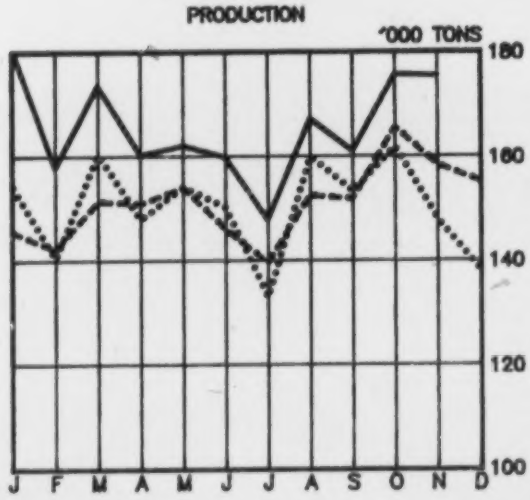

## UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS




## OTHER PAPER

PRODUCTION




1985 ..... 1986 - - - - - 1987 ———

## WOOD PULP STATISTICS
(Thousands of Tons)

| | YEAR 1985 | YEAR 1986 | JULY 1987 | AUGUST 1987 | SEPTEMBER 1987 R | OCTOBER 1987 P | Annual Rate Y-T D 1987 | % Change from same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| Total Wood Pulp - Production | 54.147 | 57,017 | 5,111 | 5,083 | 4,925 | 5,067 | 59,542 | 4.7 |
| - Imports | 4,466 | 4,582 | 401 | 380 | 432 | 386 | 4.841 | 5.6 |
| - Exports | 3,791 | 4 458 | 463 | 390 | 442 | 333 | 4,798 | 7.8 |
| - New Supply | 54,821 | 57.140 | 5.049 | 5.073 | 4.915 | 5.120 | 59.585 | 4.6 |
| Dissolving Pulp - Production | 1,174 | 1,258 | 123 | 102 | 112 | 88 | 1,279 | 2.3 |
| - Imports | 175 | 255 | 11 | 22 | 19 | 19 | 216 | -17.2 |
| - Exports | 631 | 711 | 65 | 62 | 65 | 53 | 743 | 4.6 |
| - New Supply | 718 | 801 | 69 | 62 | 66 | 54 | 752 | -6.0 |
| Paper Grades - Production | 43.696 | 46,081 | 4,141 | 4,162 | 3 947 | 4,111 | 48,288 | 5.1 |
| Chemical Pulp - Imports | 4,104 | 4.220 | 367 | 349 | 391 | 345 | 4.442 | 5.6 |
| - Exports | 3,131 | 3,689 | 396 | 326 | 376 | 278 | 4,033 | 8.5 |
| - New Supply | 44,668 | 46.612 | 4.111 | 4.186 | 3.963 | 4.177 | 48.697 | 4.9 |
| Groundwood and - Production | 5,251 | 5,487 | 484 | 487 | 506 | 501 | 5,710 | 4.2 |
| Thermo-Mech. - Imports | 187 | 188 | 23 | 8 | 22 | 23 | 183 | 58.6 |
| - Exports | 29 | 59 | 2 | 2 | 1 | 2 | 23 | -60.8 |
| - New Supply | 5.409 | 5.536 | 506 | 493 | 527 | 523 | 5.870 | 6.0 |
| Semi-Chemical - Production | 4.027 | 4,191 | 364 | 333 | 359 | 367 | 4,265 | 1.7 |
| - Imports | | | | | | | | |
| - Exports | | | | | | | | |
| - New Supply | 4,027 | 4,191 | 364 | 333 | 359 | 367 | 4.265 | 1.7 |
| MARKET WOOD PULP | | | | | | | | |
| Total Market - Production | 6,880 | 7.583 | 729 | 708 | 680 | 670 | 8.082 | 7.9 |
| Wood Pulp - Imports | 2.791 | 3,122 | 285 | 268 | 292 | 267 | 3,218 | 3.7 |
| - Exports | 3,784 | 4,470 | 439 | 369 | 469 | 383 | 4.765 | 7.5 |
| - New Supply | 5,887 | 6,235 | 574 | 607 | 503 | 554 | 6,534 | 6.1 |
| Dissolving Pulp - Production | 1,172 | 1,251 | 123 | 102 | 112 | 88 | 1.275 | 2.6 |
| - Imports | 174 | 212 | 6 | 19 | 15 | 14 | 165 | -24.2 |
| - Exports | 667 | 718 | 65 | 54 | 88 | 56 | 769 | 9.5 |
| - New Supply | 679 | 745 | 63 | 66 | 40 | 46 | 670 | -11.5 |
| Paper Grades - Production | 5.613 | 6.315 | 605 | 604 | 566 | 581 | 6.793 | 9.8 |
| Chemical Pulp - Imports | 2,531 | 2,831 | 263 | 245 | 269 | 240 | 2.949 | 5.4 |
| - Exports | 3,117 | 3,752 | 375 | 315 | 381 | 327 | 3.996 | 7.1 |
| - New Supply | 5,028 | 5,394 | 494 | 535 | 454 | 493 | 5,745 | 8.4 |
| Groundwood Pulp - Production | 15 | 17 | 1 | 1 | 1 | 1 | 14 | -12.8 |
| and All Other - Imports | 86 | 79 | 16 | 4 | 8 | 13 | 104 | 18.1 |
| - Exports | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| - New Supply | 100 | 96 | 17 | 5 | 9 | 14 | 119 | 13.6 |

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

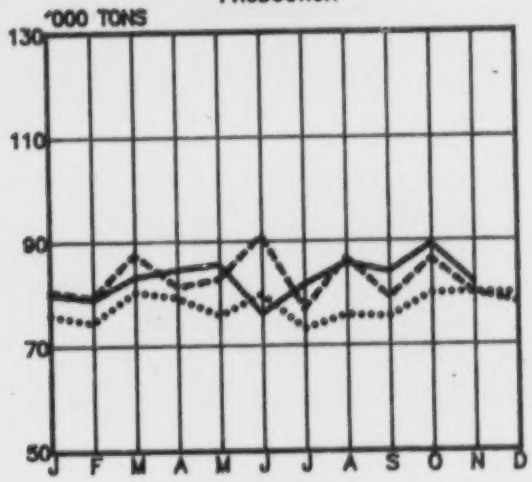
## FIBROUS RAW MATERIALS
(Thousands of tons)

| | | | | | R | P | | |
|---|---|---|---|---|---|---|---|---|
| CONSUMPTION AT PAPER & PAPERBOARD MILLS | | | | | | | | |
| Total | 69,670 | 73,556 | 6.492 | 6.541 | 6.449 | 6.630 | 77.085 | 4.9 |
| Total Wood Pulp | 54,047 | 56.320 | 4,984 | 4.943 | 4,905 | 5,012 | 58,719 | 4.5 |
| Waste Paper | 15,623 | 17,236 | 1,508 | 1,598 | 1,544 | 1,619 | 18.366 | 6.4 |
| INVENTORIES | | | | | | | | |
| Chemical Paper Grade Market Pulp | | | | | | | | |
| Producers' Own-Use Inventories | 165 | 174 | 173 | 177 | 167 | 161 | 161 | -8.6 |
| Producers' Market Inventories | 485 | 284 | 281 | 340 | 272 | 266 | 266 | -8.9 |
| Consumers' Purchased Inventories | 583 | 569 | 608 | 605 | 629 | 595 | 595 | 9.8 |
| Waste Paper at Paper & Bd. Mills | 969 | 832 | 797 | 745 | 804 | 832 | 832 | -2.5 |
| Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp | 30 | 16 | 15 | 18 | 14 | 14 | 14 | -12.5 |

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

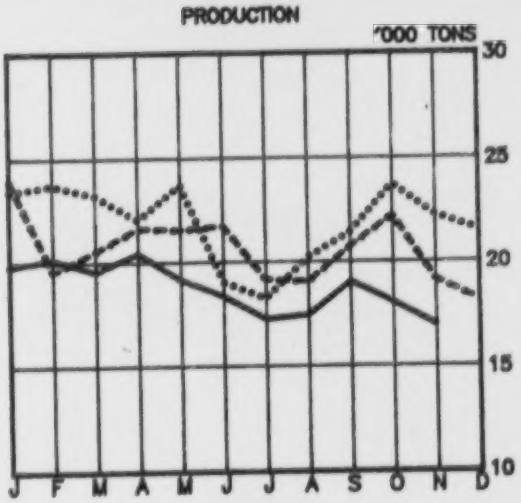
BLEACHED BRISTOLS

PRODUCTION



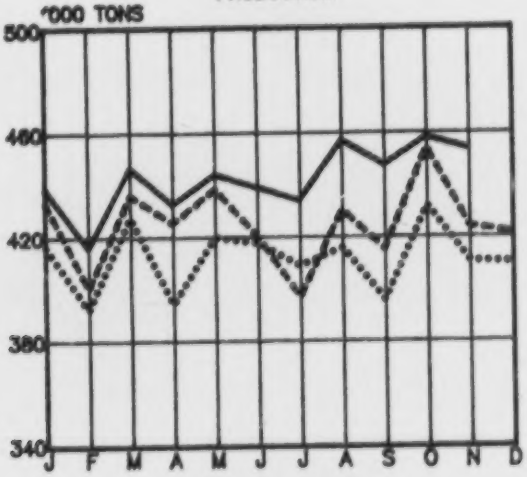

THIN PAPER

PRODUCTION



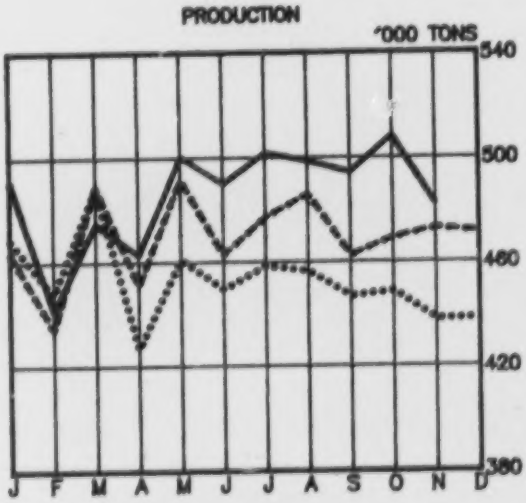

TISSUE PAPER

PRODUCTION



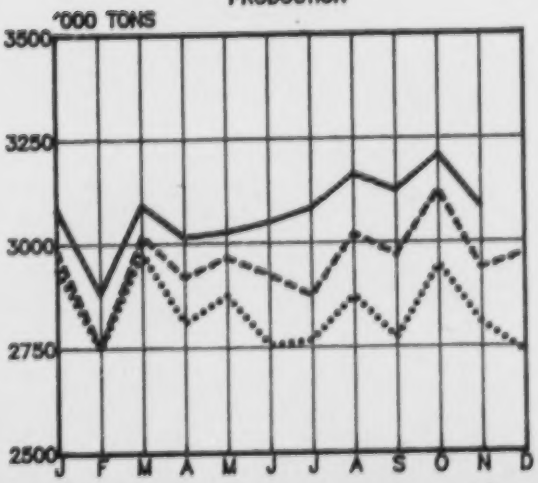

NEWSPRINT

PRODUCTION



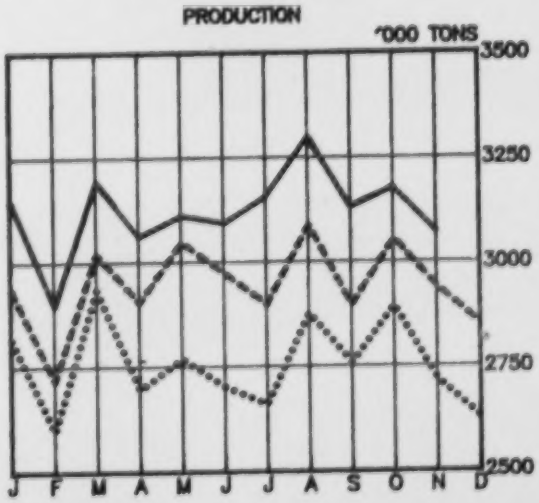

TOTAL PAPER

PRODUCTION




TOTAL PAPERBOARD

PRODUCTION




1985 ..... 1986 - - - - - 1987 ———

## F I B R O U S  R A W  M A T E R I A L S
(Thousands of Standard (128 cubic foot) Cords)

| | | YEAR 1985 | YEAR 1986 | JULY 1987 | AUGUST 1987 | SEPTEMBER 1987 | OCTOBER 1987 | Annual Rate Y-T-D 1987 | % Change From Same Period Last Year |
|---|---|---|---|---|---|---|---|---|---|
| PULPWOOD | | | | | | | | | |
| Total U.S. | - Total Receipts | 85,499 | 90,943 | 8,264 | 7,643 | 8,861 | 8,436 | 94,898 | 3.9 |
| | - Total Consumpt | 85,744 | 91,434 | 8,195 | 7,729 | 7,856 | 7,984 | 94,868 | 3.2 |
| | - Residues * | 30,464 | 32,755 | 2,778 | 2,637 | 2,848 | 3,029 | 33,858 | -0.6 |
| | - Inventories | 5,046 | 4,794 | 4,782 | 4,703 | 5,844 | 5,301 | 5,301 | -3.6 |
| So. Atlantic | - Total Receipts | 27,589 | 29,513 | 2,688 | 2,529 | 2,826 | 2,814 | 31,238 | 5.6 |
| | - Total Consumpt | 27,815 | 29,425 | 2,651 | 2,519 | 2,773 | 2,695 | 30,988 | 5.3 |
| | - Residues * | 7,978 | 9,343 | 835 | 779 | 912 | 915 | 9,496 | 1.2 |
| | - Inventories | 1,117 | 994 | 1,029 | 1,040 | 1,114 | 1,256 | 1,256 | 5.8 |
| Northeast | - Total Receipts | 7,430 | 7,277 | 572 | 554 | 545 | 592 | 6,996 | -3.6 |
| | - Total Consumpt | 7,394 | 7,227 | 591 | 596 | 539 | 599 | 7,166 | -1.2 |
| | - Residues * | 1,539 | 1,419 | 108 | 117 | 129 | 134 | 1,543 | 7.1 |
| | - Inventories | 544 | 484 | 447 | 471 | 514 | 542 | 542 | 21.3 |
| South Central | - Total Receipts | 29,786 | 31,798 | 2,982 | 2,687 | 2,813 | 2,975 | 33,742 | 6.8 |
| | - Total Consumpt | 29,914 | 32,113 | 2,937 | 2,787 | 2,698 | 2,787 | 32,977 | 3.6 |
| | - Residues * | 9,287 | 9,792 | 825 | 758 | 819 | 867 | 10,180 | 3.8 |
| | - Inventories | 1,198 | 926 | 1,088 | 1,048 | 1,180 | 1,363 | 1,363 | 5.8 |
| North Central | - Total Receipts | 6,438 | 6,571 | 607 | 539 | 539 | 632 | 6,598 | 8.6 |
| | - Total Consumpt | 6,296 | 6,738 | 563 | 559 | 536 | 618 | 6,769 | 8.8 |
| | - Residues * | 1,298 | 1,842 | 109 | 104 | 109 | 165 | 1,193 | 13.8 |
| | - Inventories | 884 | 892 | 884 | 837 | 857 | 883 | 883 | 1.7 |
| West | - Total Receipts | 14,264 | 15,792 | 1,415 | 1,334 | 1,338 | 1,423 | 16,348 | 1.7 |
| | - Total Consumpt | 14,325 | 15,939 | 1,453 | 1,348 | 1,310 | 1,383 | 16,238 | 1.5 |
| | - Residues * | 10,458 | 11,159 | 981 | 879 | 879 | 948 | 10,726 | -7.3 |
| | - Inventories | 1,383 | 1,498 | 1,338 | 1,387 | 1,379 | 1,257 | 1,257 | -26.5 |

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association 17-Dec-87

## U N I T E D  S T A T E S  T R A D E  W I T H  C A N A D A

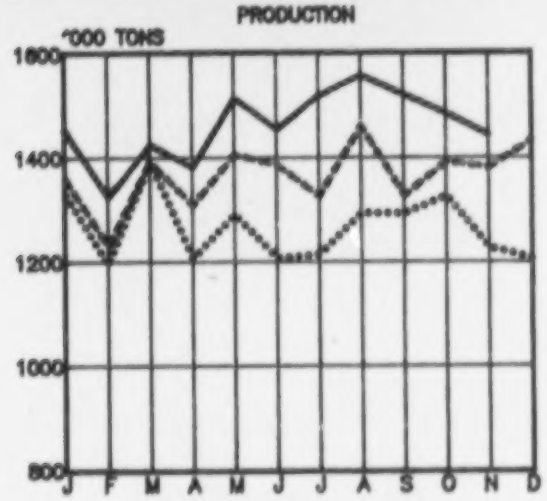
| | IMPORTS FROM CANADA YEAR Tons | YEAR 1986 ($000's) | SEPTEMBER 1987 Tons | SEPTEMBER 1987 ($000) | OCTOBER Tons | OCTOBER 1987 ($000) | Annual Rate Y-T-D 1987 Tons | % Change From same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| Pulpwood, Roundwood (in cords of 128 cubic feet) | 59,498 | 4,224 | 16 | 1 | 2,743 | 180 | 18,040 | -85.4 |
| Pulpwood chips | 723,257 | 19,488 | 46,334 | 1,589 | 38,196 | 11,881 | 396,837 | -43.8 |
| Wood Pulp, Total | 3,949,414 | 1,422,180 | 366,583 | 156,943 | 358,441 | 159,813 | 4,316,324 | 9.1 |
| Waste Fibrous Materials, Total | 157,870 | 27,196 | 12,885 | 2,118 | 13,718 | 2,655 | 181,885 | 12.7 |
| Paper, Board & Products, Total | 9,963,486 | 4,467,761 | 918,947 | 455,729 | 887,137 | 443,780 | 10,635,188 | 6.7 |
| Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. | 9,842,154 | 4,268,828 | 906,595 | 433,483 | 874,574 | 421,279 | 10,488,615 | 6.5 |
| Paper, Paperboard & Products | 9,715,719 | 4,393,592 | 900,152 | 450,319 | 869,654 | 438,671 | 10,482,191 | 7.1 |
| Paper & Paperboard, Only | 9,594,378 | 4,194,651 | 887,880 | 427,993 | 857,891 | 416,242 | 10,255,688 | 6.9 |
| Paper, Total | 9,367,380 | 4,138,464 | 863,265 | 420,887 | 834,377 | 408,931 | 9,999,162 | 6.7 |
| Newsprint | 8,269,333 | 3,556,983 | 739,181 | 352,218 | 710,321 | 339,535 | 8,628,942 | 3.8 |
| Printing, Writing & Rel. Pap. | 868,628 | 457,685 | 100,219 | 55,487 | 103,433 | 57,766 | 1,107,320 | 32.7 |
| Pack. & Ind. Conv. Paper | 182,481 | 81,492 | 20,784 | 9,720 | 16,844 | 8,449 | 218,295 | 20.7 |
| Special Industrial Paper | 4,766 | 7,893 | 488 | 789 | 365 | 785 | 5,371 | 19.8 |
| Tissue Paper | 42,173 | 26,411 | 2,761 | 2,834 | 3,415 | 2,476 | 19,233 | -3.5 |
| Paperboard, Total | 226,998 | 64,187 | 24,535 | 7,906 | 22,714 | 7,312 | 256,527 | 14.2 |
| Convtd Paper&Paperbd Products | 121,332 | 198,941 | 12,352 | 22,326 | 12,563 | 22,428 | 146,493 | 21.4 |
| Wet Machine Board | 2,332 | 1,570 | 289 | 143 | 232 | 159 | 2,897 | 28.5 |
| Construction Paper & Board | 245,444 | 72,599 | 18,586 | 5,267 | 17,250 | 4,878 | 230,838 | -9.1 |

| | EXPORTS TO CANADA YEAR Tons | YEAR 1986 ($000's) | SEPTEMBER 1987 Tons | SEPTEMBER 1987 ($000) | OCTOBER Tons | OCTOBER 1987 ($000) | Annual Rate Y-T-D 1987 Tons | % Change From same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| Pulpwood, Roundwood (in cords of 128 cubic feet) | 39,191 | 2,281 | 8 | 8 | 4,419 | 286 | 12,798 | -62.4 |
| Pulpwood chips | 262,844 | 13,577 | 4,685 | 337 | 3,418 | 199 | 68,556 | -64.9 |
| Wood Pulp, Total | 262,353 | 76,591 | 25,028 | 9,417 | 12,988 | 4,754 | 296,755 | -22.2 |
| Cotton Pulp & Other Pulp | 33,629 | 10,458 | 8,560 | 1,586 | 4,152 | 844 | 55,470 | 72.6 |
| Waste Paper | 226,215 | 23,254 | 23,728 | 2,673 | 25,774 | 2,798 | 278,528 | 27.8 |
| Paper, Board & Products, Total | 725,421 | 464,684 | 105,787 | 58,875 | 87,260 | 50,478 | 955,692 | 31.9 |
| Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. | 570,635 | 315,718 | 74,126 | 40,843 | 61,817 | 34,546 | 784,427 | 33.6 |
| Paper, Paperboard & Products | 695,561 | 452,129 | 101,827 | 56,298 | 82,986 | 49,532 | 918,927 | 32.2 |
| Paper & Paperboard, Only | 548,775 | 303,154 | 70,445 | 38,266 | 58,744 | 32,600 | 666,762 | 23.5 |
| Paper, Total | 278,911 | 289,168 | 27,175 | 24,568 | 24,887 | 21,383 | 295,186 | 5.6 |
| Newsprint | 6,040 | 4,457 | 238 | 194 | 370 | 363 | 4,465 | -18.3 |
| Printing, Writing & Rel. Pap. | 121,167 | 99,488 | 14,275 | 12,567 | 13,314 | 11,625 | 147,757 | 23.1 |
| Pack. & Ind. Conv. Paper | 25,614 | 16,467 | 2,883 | 1,613 | 3,134 | 1,689 | 25,798 | -1.3 |
| Special Industrial Paper | 122,874 | 75,189 | 10,893 | 9,379 | 7,711 | 7,285 | 111,338 | -18.7 |
| Tissue Paper | 3,217 | 4,577 | 566 | 815 | 278 | 582 | 5,445 | 65.2 |
| Paperboard, Total | 261,864 | 192,986 | 43,271 | 13,698 | 33,937 | 11,217 | 371,577 | 42.7 |
| Convtd Paper&Paperbd Products | 154,786 | 148,975 | 31,382 | 10,832 | 24,243 | 15,932 | 251,265 | 62.5 |
| Wet Machine Board | 10,728 | 4,638 | 793 | 395 | 998 | 483 | 10,698 | 1.1 |
| Construction Paper & Board | 19,132 | 7,918 | 3,088 | 1,382 | 3,283 | 1,464 | 26,967 | 39.1 |

SOURCE: Bureau of Census, Department of Commerce . E - Estimate of tonnage based on square foot data 17-Dec-87

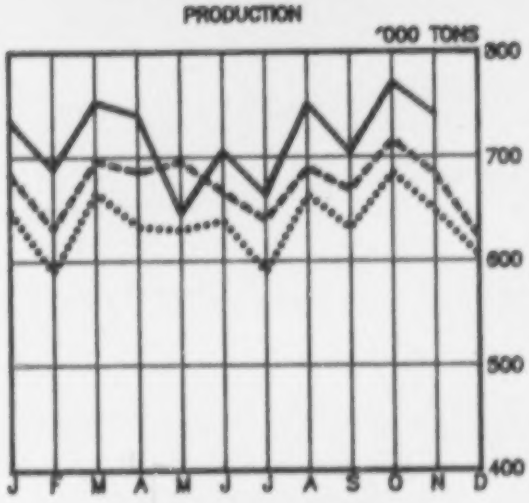
## UNBLEACHED KRAFT LINERBOARD

PRODUCTION



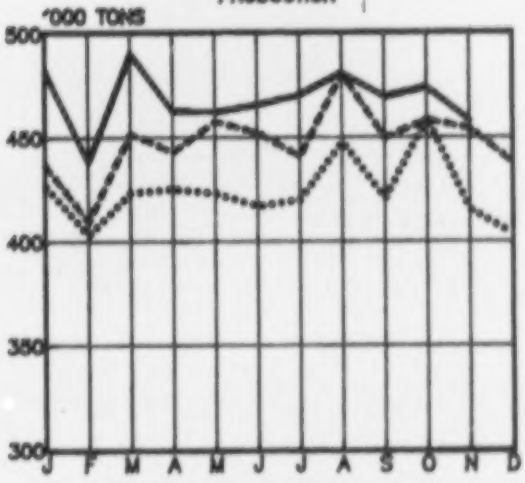

## RECYCLED PAPERBOARD

PRODUCTION



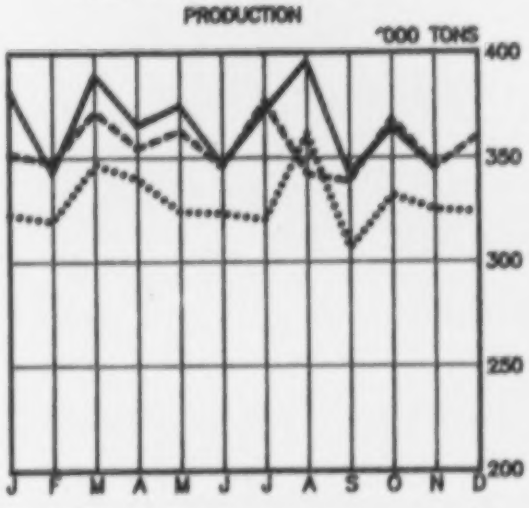

## SEMICHEMICAL PAPERBOARD

PRODUCTION



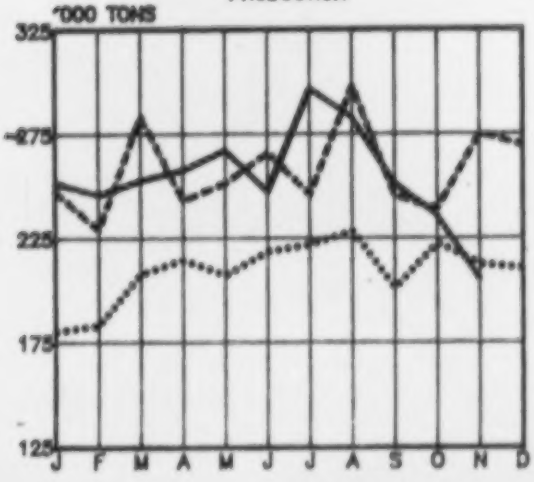

## SOLID BLEACHED PAPERBOARD

PRODUCTION



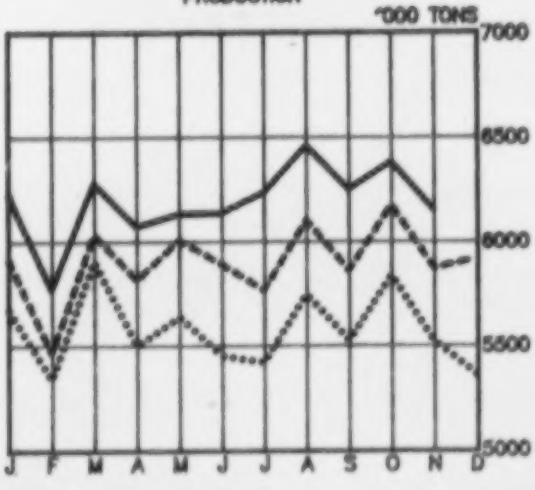

## PAPERBOARD FOR EXPORT

PRODUCTION




## TOTAL PAPER AND PAPERBOARD

PRODUCTION




1985 ..... 1986 ------1987 ——

## I M P O R T S

| | YEAR 1996 Tons | YEAR 1996 $000 | SEPTEMBER 1997 Tons | SEPTEMBER 1997 $000 | OCTOBER 1997 Tons | OCTOBER 1997 $000 | (1) Annual Rate YTD 1997 Tons | % Change from same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| Pulpwood Roundwood (cords) | 68,858 | 4,563 | 16 | 1 | 2,743 | 188 | 18,188 | -85.59 |
| Pulpwood Chips | 724,828 | 19,842 | 46,549 | 1,682 | 39,172 | 1,129 | 475,168 | -31.78 |
| Total All Imports | 16,722,494 | 7,674,736 | 1,561,883 | 796,747 | 1,524,766 | 884,459 | 17,849,847 | 6.91 |
| Wood Pulp, Total | 4,501,760 | 1,681,378 | 432,275 | 186,914 | 386,234 | 171,393 | 4,841,866 | 9.65 |
| Waste Paper | 99,313 | 11,182 | 9,606 | 1,376 | 11,319 | 1,887 | 120,862 | 22.92 |
| Other Fibrous Materials | 106,969 | 26,326 | 3,331 | 1,188 | 3,851 | 1,787 | 76,399 | -29.98 |
| Paper Board & Products Total | 11,936,452 | 6,935,850 | 1,117,792 | 607,349 | 1,123,362 | 629,552 | 12,888,722 | 7.61 |
| Paper Paperboard Wet Machine Bd. & Construction Paper & Board | 11,546,545 | 5,247,129 | 1,088,199 | 533,821 | 1,090,181 | 547,296 | 12,484,182 | 7.68 |
| Paper Ppbd & Prds ex Cnst&WMB | 11,596,808 | 5,928,457 | 1,091,554 | 599,454 | 1,098,946 | 621,997 | 12,486,917 | 8.04 |
| Paper & Paperboard Only | 11,206,981 | 5,139,735 | 1,061,961 | 525,926 | 1,065,884 | 539,742 | 12,081,398 | 8.12 |
| Paper Total | 10,925,453 | 5,051,917 | 1,028,581 | 513,808 | 1,038,265 | 530,448 | 11,717,520 | 7.46 |
| Newsprint | 8,587,587 | 3,682,351 | 779,893 | 367,745 | 746,401 | 355,654 | 8,999,864 | 4.12 |
| Printing & Writing | 2,029,302 | 1,179,882 | 215,189 | 125,277 | 257,322 | 152,513 | 2,344,513 | 19.69 |
| Uncoated Groundwood | 1,038,231 | 531,149 | 114,493 | 58,958 | 142,424 | 76,118 | 1,246,245 | 25.65 |
| Coated Print.& Impreg. Pap. | 581,382 | 359,495 | 68,788 | 41,131 | 74,738 | 50,664 | 655,888 | 36.67 |
| Uncoated Free Sheet | 453,638 | 254,627 | 37,151 | 22,152 | 36,988 | 22,691 | 392,930 | -10.74 |
| Uncoated Book | 223,798 | 126,278 | 21,977 | 12,568 | 17,597 | 10,227 | 213,588 | -2.76 |
| Writing and Similar Paper | 229,841 | 128,349 | 15,173 | 9,592 | 19,310 | 12,464 | 179,438 | -18.68 |
| Thin (except Cigarette) | 45,351 | 33,831 | 2,819 | 2,991 | 3,128 | 2,911 | 48,558 | 5.26 |
| Bristols | 788 | 788 | 34 | 53 | 124 | 137 | 892 | 26.61 |
| Total Pkg & Other Paper | 242,571 | 146,212 | 29,855 | 17,870 | 29,163 | 18,131 | 317,285 | 14.88 |
| Unbleached Kraft Paper | 115,988 | 42,658 | 16,613 | 6,885 | 17,272 | 6,769 | 174,478 | 55.12 |
| Other Pkg. & Indust. Paper | 127,562 | 103,562 | 13,242 | 10,985 | 11,892 | 11,363 | 142,726 | 14.88 |
| Tissue | 66,873 | 43,552 | 3,965 | 3,916 | 5,379 | 4,158 | 55,938 | -14.89 |
| Paperboard, Total | 281,448 | 87,818 | 33,468 | 13,118 | 27,619 | 9,294 | 363,878 | 34.92 |
| Test or Containerboard | 78,963 | 25,596 | 7,456 | 3,596 | 7,738 | 2,768 | 88,383 | 4.29 |
| Semi-Chemical Corrugating | 99,862 | 22,892 | 11,392 | 3,113 | 10,519 | 2,881 | 125,518 | 38.94 |
| Other Paperboard | 104,324 | 48,138 | 14,613 | 6,489 | 9,361 | 3,733 | 150,965 | 63.31 |
| Convtd Paper&Paperbd Products | 389,987 | 788,731 | 29,593 | 73,529 | 33,861 | 82,256 | 484,619 | 5.66 |
| Paper Products, Total | 361,517 | 738,257 | 26,877 | 67,918 | 30,558 | 76,615 | 378,782 | 4.55 |
| Paperboard Products, Total | 28,390 | 50,464 | 2,716 | 5,611 | 3,583 | 5,641 | 33,837 | 19.51 |
| Wet machine Board | 3,235 | 2,525 | 268 | 226 | 382 | 241 | 3,482 | 8.25 |
| Construction Paper & Board | 336,489 | 194,868 | 25,969 | 7,678 | 24,115 | 7,314 | 319,222 | -6.88 |
| Notes | | | | | | | | |
| Other: No Weight Avail. ($000) | | 212,338 | | 18,898 | | 16,991 | 206,735 | -1.64 |
| Total Imports Incl. Other($000) | | 7,887,074 | | 814,755 | | 901,450 | 9,140,783 | 17.42 |

## E X P O R T S

| | YEAR 1996 Tons | YEAR 1996 $000 | SEPTEMBER 1997 Tons | SEPTEMBER 1997 $000 | OCTOBER 1997 Tons | OCTOBER 1997 $000 | (1) Annual Rate YTD 1997 Tons | % Change from same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| Pulpwood, Roundwood (cords) | 42,199 | 2,373 | 0 | 0 | 4,419 | 286 | 15,847 | -59.56 |
| Pulpwood Chips | 2,428,333 | 178,872 | 239,693 | 18,253 | 197,781 | 15,885 | 2,449,650 | 7.55 |
| Total All Exports | 13,851,152 | 6,685,447 | 1,268,133 | 623,282 | 1,175,886 | 566,366 | 14,547,776 | 11.91 |
| Wood Pulp, Total | 4,459,313 | 1,662,466 | 442,166 | 208,466 | 332,615 | 169,992 | 4,797,986 | 8.99 |
| Cotton Pulp and Other Pulp | 157,452 | 72,588 | 19,185 | 8,625 | 12,955 | 6,288 | 179,759 | 11.62 |
| Waste and Old Paper | 3,749,711 | 411,876 | 355,897 | 44,598 | 484,341 | 47,776 | 4,258,561 | 14.16 |
| Paper, Board & Products, Total | 4,686,677 | 2,539,485 | 442,945 | 261,691 | 425,175 | 251,919 | 5,311,579 | 14.89 |
| Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board | 4,169,179 | 1,853,616 | 368,247 | 189,548 | 361,786 | 184,974 | 4,589,428 | 11.72 |
| Paper, Ppbd & Prod ex Cnst&WMB | 4,592,635 | 2,487,587 | 434,325 | 257,178 | 415,353 | 245,963 | 5,285,946 | 14.93 |
| Paper & Paperboard, Only | 4,066,137 | 1,891,718 | 359,637 | 185,125 | 353,969 | 179,919 | 4,483,893 | 11.69 |
| Paper, Total | 883,689 | 642,597 | 75,266 | 69,991 | 76,216 | 63,344 | 913,898 | 6.84 |
| Newsprint | 292,228 | 194,549 | 19,978 | 13,123 | 25,865 | 16,614 | 338,917 | -6.82 |
| Printing & Writing | 199,656 | 185,271 | 24,799 | 24,952 | 21,917 | 21,841 | 244,134 | 28.89 |
| Uncoated Groundwood | 48,847 | 28,947 | 6,231 | 4,586 | 5,966 | 4,171 | 54,831 | 33.74 |
| Clay Coated Paper | 78,248 | 57,856 | 9,287 | 6,628 | 8,485 | 6,367 | 97,697 | 25.16 |
| Uncoated Free Sheet | 58,148 | 71,354 | 7,181 | 10,597 | 6,137 | 8,377 | 66,329 | 34.11 |
| Other Printing & Writing | 31,429 | 27,114 | 3,101 | 3,229 | 1,329 | 2,125 | 39,276 | 31.89 |
| Total Pkg. & Other Paper | 294,848 | 241,426 | 26,268 | 28,495 | 23,657 | 23,117 | 290,661 | 0.11 |
| Unbleached Kraft | 78,248 | 32,889 | 6,521 | 3,197 | 7,161 | 3,315 | 85,486 | 9.04 |
| Other Pkg. & Indust. Paper | 285,888 | 289,417 | 19,726 | 25,288 | 16,496 | 19,802 | 285,175 | -1.87 |
| Tissue | 16,758 | 21,351 | 4,241 | 3,512 | 4,778 | 2,572 | 38,296 | 128.56 |
| Paperboard, Total | 3,182,448 | 1,199,121 | 284,161 | 115,135 | 277,748 | 116,575 | 3,571,795 | 13.23 |
| Solid Wood Pulp | 3,982,973 | 1,074,984 | 248,031 | 103,243 | 250,072 | 100,168 | 3,245,328 | 9.50 |
| Total Linerboard | 2,177,428 | 635,749 | 175,889 | 64,151 | 172,126 | 62,347 | 2,316,,89 | 6.94 |
| Bleached Kraft Linerboard | 133,787 | 51,448 | 15,883 | 6,869 | 4,566 | 2,376 | 84,625 | -48.25 |
| Unbleached Kraft Linerbd | 2,043,633 | 584,301 | 160,006 | 58,883 | 167,560 | 59,971 | 2,231,484 | 10.25 |
| Other Unbleached Kraft | 157,614 | 57,548 | 17 644 | 6,433 | 13,151 | 5,134 | 214,556 | 42.96 |
| Other Bleached Kraft | 571,298 | 359,956 | 52,239 | 31,644 | 61,260 | 39,233 | 647,375 | 13.34 |
| Semi-Chemical Corrugating | 76,641 | 21,713 | 2,267 | 1,815 | 3,534 | 1,455 | 67,281 | -12.33 |
| Recycled Paperboard | 199,476 | 84,157 | 36,331 | 11,892 | 27,677 | 8,487 | 326,479 | 71.93 |
| Convtd Paper&Paperbd Products | 526,497 | 685,789 | 74,698 | 72,853 | 61,389 | 66,845 | 722,143 | 48.21 |
| Paper Products, Total | 268,171 | 456,429 | 27,934 | 47,764 | 24,124 | 45,858 | 299,177 | 36.79 |
| Paperboard Products, Total | 286,327 | 229,360 | 46,764 | 24,288 | 37,265 | 20,986 | 422,965 | 51.55 |
| Wet Machine Board | 18,893 | 7,259 | 1,157 | 525 | 1,693 | 786 | 18,434 | -2.97 |
| Construction Paper & Board E | 75,149 | 44,619 | 7,161 | 3,898 | 8,129 | 4,278 | 87,198 | 17.84 |
| Notes | | | | | | | | |
| Other: No Weight Avail. ($000) | | 7,298 | | 681 | | 682 | 7,866 | 5.67 |
| Total Exports Incl. Other($000) | | 6,692,745 | | 523,963 | | 566,968 | 5,906,414 | 27.68 |

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

## PRODUCER PRICE INDEXES
1967 = 100

| | 1985 | 1986 | AUGUST 1987 | SEPTEMBER 1987 | OCTOBER 1987 | NOVEMBER 1987 | Annual Rate Y-T-D 1987 | % Change from same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| Pulp, Paper and Products except Building Grades | 292.9 | 293.9 | 312.8 | 316.9 | 319.9 | 320.1 | 311.5 | 6.2 |
| Pulp Paper & Products, ex. Building Grades & ex Waste Paper * | 294.5 | 295.9 | 314.3 | 318.3 | 320.5 | 321.7 | 313.1 | 6.0 |
| Total Wood Pulp | 346.6 | 358.7 | 422.6 | 444.9 | 445.2 | 445.9 | 422.2 | 18.6 |
| Total Paper | 303.4 | 306.3 | 319.5 | 321.4 | 324.9 | 327.1 | 318.3 | 4.1 |
| Total Paper, exc. Newsprint | 298.8 | 300.4 | 305.4 | 307.7 | 314.1 | 316.2 | 306.5 | 2.2 |
| Newsprint | 332.9 | 326.1 | 367.1 | 369.2 | 368.4 | 369.9 | 353.1 | 8.5 |
| Total Paperboard | 274.6 | 271.6 | 308.7 | 308.5 | 310.8 | 311.3 | 299.4 | 10.6 |
| Total Paper and Paperboard * | 294.4 | 295.3 | 313.6 | 317.4 | 320.5 | 322.1 | 307.4 | 6.0 |
| Converted Products | 288.1 | 289.3 | 303.3 | 306.3 | 308.1 | 309.4 | 302.7 | 4.8 |
| Waste Paper | 148.8 | 172.8 | 227.9 | 234.2 | 232.5 | 225.4 | 219.9 | 28.6 |
| All Commodities | 300.9 | 299.8 | 310.5 | 310.4 | 311.4 | 311.9 | 300.9 | 2.8 |
| Industrial Commodities | 324.8 | 312.1 | 323.8 | 323.3 | 324.9 | 325.4 | 319.9 | 2.4 |

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

## IMPORTS OF TOTAL PAPER AND PAPERBOARD

| | Total | Canada | Other |
|---|---|---|---|
| 1982 | 7,496.1 | 7,284.7 | 211.4 |
| 1983 | 8,357.3 | 7,792.9 | 564.4 |
| 1984 | 10,356.3 | 8,877.7 | 1,478.6 |
| 1985 | 10,821.6 | 9,286.5 | 1,535.1 |
| 1986 | 11,206.9 | 9,594.4 | 1,612.5 |
| 1987 | 12,002.6 | 10,252.4 | 1,750.2 |

*9 months at annualized rate

Source: Bureau of the Census, Department of Commerce

These figures are consistent with data published by the Conference Board on capital appropriations. The Board showed that new appropriations by paper companies in the second quarter of 1987 moved up sharply from the average level of the previous five quarters, bringing the backlog of unspent appropriations to a level equivalent to 3.5 times the second quarter rate of capital expenditures for these companies. The year-ago backlog represented 3 quarters of expenditures at the lower rate that prevailed then.

**IMPORT PATTERNS**

The 40% decline of the trade-weighted value of the dollar since early 1985 has not had as significant an impact on paper and paperboard imports as was anticipated. Although import growth for paper and paperboard slowed from an average annual rate of 13% between 1982 and 1985 to 3.6% in 1986, it re-accelerated to a 7.9% increase, reaching a rate of 12.0 million tons per year during the first nine months of 1987. This rate was 44% above 1983 total imports of 8.4 million tons. Imports from Canada, at 10.3 million tons per year, were 32% above their 1983 level; imports from all other countries, at 1.8 million tons per year, were more than three times their 1983 total. (See table on page 10.)

However, it is important to realize that a number of special factors have been working to keep imports high. For one thing, more than 80% of the 1987 increase in imports originated in Canada and Canadian currency has remained fairly stable relative to the U.S. dollar during the past two years. Perhaps more important, U.S. capacity in the two grades that accounted for 86% of the 1986-87 increase in imports -- newsprint and groundwood papers -- is equivalent to only 45% of total U.S. consumption of these grades.

These are also the major grades for which overseas imports increased during 1987: Newsprint imports from all nations except Canada rose 8.1% from 332,400 tons in 1986 to an annualized rate of 359,400 tons during the first nine months of 1987. However, these imports were still some 2% below their 1985 peak, suggesting that the decline in the exchange value of the dollar did slow their rate of growth. Imports of uncoated groundwood papers from abroad reached a new peak of 518,500 tons per year during the first 9 months of 1987. (See table on page 12.)

Imports of uncoated free sheet and coated papers appear to have been more responsive to the dollar's slide. Imports of uncoated free sheet both from Canada and abroad declined in 1987, with 75% of the overall tonnage reduction accounted for by imports from overseas nations.

Imports of coated papers from Canada more than doubled during 1987, to a nine-month annualized rate of 214,200 tons, while imports of coated papers from overseas remained approximately level from 1986 to 1987. A significant fraction of Canadian coated paper capacity is owned by U.S. companies.

Continued on page 12

**IMPORTS OF SELECTED GRADES**
**BY REGION OF ORIGIN**
(000 tons)

**NEWSPRINT**

| | Total | Canada | Western Europe | Other |
|---|---|---|---|---|
| 1982 | 6,530.7 | 6,484.6 | 46.0 | --- |
| 1984 | 7,900.6 | 7,688.1 | 191.2 | 21.4 |
| 1985 | 8,496.6 | 8,129.1 | 307.5 | 59.9 |
| 1986 | 8,587.5 | 8,255.2 | 283.9 | 48.5 |
| 1987* | 9,004.6 | 8,645.3 | 308.9 | 50.5 |

**UNCOATED GROUNDWOOD**

| | Total | Canada | Western Europe | Other |
|---|---|---|---|---|
| 1982 | 511.0 | 421.0 | 90.0 | --- |
| 1984 | 1,086.6 | 582.7 | 486.3 | 17.6 |
| 1985 | 1,024.5 | 540.6 | 476.8 | 7.2 |
| 1986 | 1,026.1 | 554.3 | 457.9 | 13.9 |
| 1987* | 1,189.9 | 671.4 | 512.4 | 6.1 |

**NEWSPRINT PLUS UNCOATED GROUNDWOOD**

| | Total | Canada | Western Europe | Other |
|---|---|---|---|---|
| 1982 | 7,041.7 | 6,905.6 | 136.0 | --- |
| 1984 | 8,987.2 | 8,270.8 | 677.5 | 39.0 |
| 1985 | 9,521.1 | 8,669.7 | 784.3 | 67.1 |
| 1986 | 9,613.6 | 8,809.5 | 741.8 | 62.4 |
| 1987* | 10,194.5 | 9,316.7 | 821.3 | 56.6 |

**UNCOATKD FREE SHEET**

| | Total | Canada | Western Europe | Other |
|---|---|---|---|---|
| 1982 | 157.0 | 149.0 | --------8-------- | |
| 1984 | 459.0 | 183.6 | 141.4 | 134.0 |
| 1985 | 379.3 | 226.1 | 89.6 | 63.6 |
| 1986 | 476.2 | 230.8 | 127.9 | 117.5 |
| 1987* | 403.9 | 212.9 | 108.8 | 82.2 |

**COATED**

| | Total | Canada | Western Europe | Other |
|---|---|---|---|---|
| 1982 | 69.0 | 37.2 | 31.7 | 0.1 |
| 1984 | 428.3 | 74.8 | 337.8 | 15.6 |
| 1985 | 496.1 | 83.1 | 289.3 | 123.7 |
| 1986 | 501.4 | 95.9 | 363.7 | 41.7 |
| 1987* | 629.1 | 214.2 | 359.5 | 55.4 |

*9 months at annualized rate

Source: Bureau of the Census, Department of Commerce

A2500-2

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

DECEMBER 22, 1987

PRODUCTION (000 TONS)

| | NOVEMBER | OCTOBER | NOVEMBER | FIRST ELEVEN MONTHS | | % CHANGE YR TO DATE |
|---|---|---|---|---|---|---|
| | 1987 | 1987 | 1986 | 1987 | 1986 | 1987/1986 |
| PAPER GRADES | | | | | | |
| Newsprint | 482 | 508 | 473 | 5.343 | 5.159 | 3.6 |
| Printing & Writing | 1,729 | 1,808 | 1,620 | 18,951 | 17,950 | 5.6 |
| Uncoated Groundwood (s) | 112 | 123 | 135 | 1,379 | 1,415 | -2.5 |
| Coated Paper (s) | 581 | 602 | 537 | 6,271 | 5,719 | 9.7 |
| Uncoated Free Sheet Paper (s) | 926 | 961 | 838 | 10,037 | 9,535 | 5.3 |
| Thin Paper (s) | 17 | 18 | 19 | 206 | 229 | -10.1 |
| Cotton Fiber Paper (s) | 11 | 14 | 12 | 147 | 140 | 5.4 |
| Bleached Bristols (s) | 82 | 89 | 80 | 911 | 912 | -0.1 |
| Tissue Paper | 454 | 458 | 424 | 4.865 | 4,673 | 4.1 |
| Total Pkg & Other Paper | 419 | 435 | 419 | 4,635 | 4,691 | -1.2 |
| Unbleached Kraft Packaging & Indl. Converting (s) | 243 | 259 | 261 | 2,812 | 3,032 | -7.3 |
| Other Paper | 176 | 176 | 158 | 1,823 | 1,659 | 9.9 |
| TOTAL PAPER | 3,083 | 3,209 | 2,936 | 33,794 | 32,472 | 4.1 |
| PAPERBOARD GRADES | | | | | | |
| Unbleached Kraft Paperboard | 1,528 | 1,566 | 1,456 | 17,247 | 16,161 | 6.7 |
| Unbleached Kraft Linerboard | 1,444 | 1,485 | 1,381 | 16,077 | 14,970 | 7.4 |
| Other Unbl. Kraft Paperboard | 84 | 81 | 74 | 1,170 | 1,191 | -1.8 |
| Semichemical Paperboard | 458 | 474 | 455 | 5,156 | 4,938 | 4.4 |
| Bleached Paperboard | 345 | 365 | 345 | 4,023 | 3,910 | 2.9 |
| Recycled Paperboard | 741 | 772 | 683 | 7,905 | 7,459 | 6.0 |
| TOTAL PAPERBOARD | 3,071 | 3,177 | 2,939 | 34,330 | 32,467 | 5.7 |
| TOTAL PAPER AND PAPERBOARD | 6,155 | 6,385 | 5,876 | 68,124 | 64,940 | 4.9 |

| WOOD PULP (ALL GRADES) | OCTOBER 1987 | SEPTEMBER 1987 | OCTOBER 1986 | First 10 Months 1987 | 1986 | % Change 87/86 |
|---|---|---|---|---|---|---|
| Dissolving & Special Alpha | 88 | 112 | 9[illegible] | 1066 | 1041 | 2.3 |
| Bleached Sulfite | 112 | 108 | 102 | 1060 | 1075 | -1.4 |
| Unbleached Sulfite | 16 | 14 | 14 | 140 | 138 | 1.6 |
| Bleached & Semi-Bl. Sulfate | 2212 | 2098 | 2050 | 21514 | 20017 | 7.5 |
| Unbleached Sulfate | 1770 | 1727 | 1751 | 17526 | 17048 | 2.8 |
| Semichemical | 367 | 359 | 358 | 3554 | 3495 | 1.7 |
| Groundwood & Thermomechanical | 501 | 506 | 473 | 4759 | 4567 | 4.2 |
| TOTAL PULP DIVISION DATA | 5067 | 4925 | 4845 | 49618 | 47381 | 4.7 |

(s) - Shipments
P - Preliminary

DECEMBER 22, 1987

| | Full Year | | INDUSTRY DATA 1986 - 1987 | | | Ann. Rate Year - To - Date | % From Same Pd. Last Year |
|---|---|---|---|---|---|---|---|
| | | | | R | P | | |
| PAPER AND PAPERBOARD -- Tons (000) | 1985 | 1986 | September | October | November | 1987 | |
| Total Production (API)..... excluding :... | 67,030 | 70,861 | 6,253 | 6,385 | 6,155 | 74,317 | 4.9 |
| Total Seasonally Adjusted.... construction:... | | | 6,217 | 6,230 | 6,243 | 73,967 | 4.9 |
| Imports (including Products).: and wet :..E | 11,106 | 11,597 | 1,092 | 1,099 | 1,096 | 12,547 | 6.8 |
| Exports (including Products).: machine :..E | 4,009 | 4,593 | 434 | 415 | 385 | 5,153 | 13.3 |
| Apparent Consumption.....: grades :... | 74,127 a | 77,866 b | 6,874 | 6,914 | 6,954 | 81,361 c | 4.7 |
| Paper Production % Tonnage Capacity..... | 90.5 g | 93.0 g | 94.5 | 93.8 | 93.5 | 93.5 gh | - |
| Paperboard Production % Tonnage Capacity..... | 90.0 g | 94.4 g | 98.1 | 96.1 | 96.7 | 97.7 g | - |
| | | | August | September | October | | |
| IMPORTS.....:Including Construction and :... | 11,521 | 11,936 | 1,031 | 1,118 | 1,123 | 12,809 | 7.6 |
| EXPORTS.....: WMB Grades (excl. HPB) :... | 4,877 | 4,687 | 494 | 443 | 425 | 5,312 | 14.9 |
| | | | August | September | October | | |
| MARKET WOOD PULP PRODUCTION - Tons (000)..... | 6,800 | 7,583 | 738 | 680 | 670 | 8,282 | 7.9 |
| TOTAL WOOD PULP PRODUCTION - Tons (000)..... | 54,147 | 57,017 | 5,083 | 4,925 | 5,067 | 59,542 | 4.7 |
| WOOD PULP IMPORTS - TONS (000)..... | 4,466 | 4,582 | 380 | 432 | 386 | 4,841 | 5.6 |
| WOOD PULP EXPORTS - TONS (000)..... | 3,791 | 4,458 | 398 | 442 | 333 | 4,798 | 7.8 |
| RAW MATERIALS CONSUMPTION - Tons (000) | | | | | | | |
| ..PAPER AND BOARD MILLS : excluding : | | | August | September | October | | |
| Wood Pulp.....:consumption for:..... | 55,847 | 56,328 | 4,943 | 4,985 | 5,012 | 58,719 | 4.5 |
| Waste Paper.....:construction & :..... | 15,623 | 17,236 | 1,599 | 1,544 | 1,619 | 18,366 | 6.4 |
| TOTAL.....: WMB grades :..... | 71,670 | 73,556 | 6,541 | 6,449 | 6,631 | 77,085 | 5.2 |
| PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn | 85,744 | 91,434 | 7,729 | 7,856 | 7,984 | 94,360 | 3.2 |
| EMPLOYMENT (000) | | | September | October | November | | |
| Paper and Allied Products.....Total..... | 677.7 | 674.3 | 681.8 | 680.3 | 682.1 | 678.1 | 0.6 |
| Pulp, Paper and Board Mills.....Total.....E | 252.3 | 248.5 | 245.8 | 244.6 | 245.3 | 246.3 | -0.8 |
| AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($) | | | September | October | November | | |
| Paper and Allied Products..... | 10.82 | 11.14 | 11.67 | 11.45 | 11.44 | 11.39 | 2.3 |
| Pulp, Paper Mills.....E | 13.11 | 13.58 | 14.45 | 14.10 | 14.00 | 13.96 | 2.9 |
| Paperboard Mills.....E | 13.60 | 14.01 | 14.45 | 14.39 | 14.37 | 14.23 | 1.7 |
| CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS | | | 1987 Q1 | 1987 Q2 | 1987 Q3 | | |
| (Rept. by US Dept. of Com., Ann. Rates, Bill.$)* | 8.59 | 8.77 | 8.06 | 8.77 | 8.94 | 8.96 y | 2.2 |
| INDEX OF OUTPUT PER MAN-HOUR (1977=100)..... | | | September | October | November | | |
| :IN PULP, PAPER :...Production Workers..... | 123.6 | 131.2 | 134.4 | 140.9 | 140.0 | 138.9 | 6.0 |
| :AND BOARD MILLS:...All Employees..... | 122.1 | 130.4 | 134.0 | 138.9 | 138.3 | 136.7 | 5.0 |
| PAPER AND ALLIED PRODUCTS (Million $) | | | August | September | October | | |
| Industry Shipments (Dept. of Commerce)*..... | 97,664 | 106,322 | 9,950 | 10,200 | 10,415 | 106,703 | 12.5 |
| Pulp, Paper and Paperboard*..... | 41,839 | 45,565 | 4,314 | 4,409 | 4,551 | 46,015 | 13.4 |
| Inventories (End of Period) - Total Industry*.. | 9,728 | 10,250 | 11,021 | 11,052 | 10,990 | 10,990 | 10.3 |
| Pulp, Paper and Paperboard*..... | 3,800 | 4,078 | 4,173 | 4,159 | 4,117 | 4,117 | 5.1 |
| | | | 1987 Q1 | 1987 Q2 | 1987 Q3 | | |
| Sales (Corporations Only)..... | 71,465 | 74,844 | 19,941 | 21,553 | 22,367 | 85,148 | 16.3 |
| Earnings (Corporations Only)..... | 2,880 | 3,280 | 996 | 1,206 | 1,433 | 4,847 | 56.5 |
| Depreciation (Corporations Only)..... | 3,899 | 3,389 | 951 | 942 | 988 | 3,841 | 15.0 |
| Net Worth (Corporations Only)..... | 29,694 | 31,221 | 32,231 | 32,843 | 33,843 | 33,843 | 9.1 |
| PRICE INDEXES (Bureau of Labor Stats)1967=100 | | | September | October | November | | |
| Pulp, Paper & Products, ex. Building Grades.... | 292.0 | 293.8 | 316.9 | 319.0 | 320.1 | 311.6 | 6.3 |
| Wood Pulp..... | 346.6 | 358.8 | 444 | 445.2 | 445.9 | 422.5 | 18.6 |
| Waste Paper..... | 148.8 | 172.8 | 234.2 | 232.5 | 225.4 | 219.6 | 28.5 |
| Paper..... | 303.4 | 306.3 | 321.4 | 324 9 | 327.1 | 318.3 | 4.1 |
| Paperboard..... | 274.6 | 271.6 | 308.5 | 310.8 | 311.3 | 299.4 | 10.6 |
| PAPER DEMAND (INDEXED: 1977=100) | | | September | October | November | | |
| Total Paper Production *..... | 122.8 | 127.9 | 133.3 | 133.5 | 133.7 | 132.5 | 4.1 |
| Paper New Supply *..... | 128.7 | 133.6 | 141.7 | 142.4 | 142.6 | 139.6 | 4.5 |
| Demand Indicators - (Weighted Average) *..... | 142.0 | 148.8 | 158.0 | 159.0 | 159.1 | 155.5 | 4.7 |
| Production of Nondurable Goods *...(21.2%). | 125.3 | 130.6 | 138.7 | 138.3 | 138.8 | 136.3 | 4.6 |
| Disposable Income .....*.(23.9%) | 128.4 | 133.6 | 135.1 | 137.1 | 135.9 | 134.9 | 1.1 |
| Total Printing and Publishing *...(54.9%). | 154.3 | 162.5 | 175.4 | 176.6 | 177.0 | 171.9 | 6.0 |
| Trend Factor | | | | Not Available | | | |
| PAPERBOARD DEMAND (INDEXED: 1977=100) | | | | | | | |
| Total Paperboard Production *..... | 114.3 | 122.0 | 130.1 | 130.5 | 130.8 | 128.7 | 5.7 |
| Production for Domestic Use ..... | 112.8 | 118.9 | 127.7 | 128.8 | 130.6 | 126.1 | 6.4 |
| Demand Indicators - (Weighted Average) *..... | 120.1 | 122.0 | 126.3 | 127.7 | 127.9 | 125.5 | 3.0 |
| Production of Consumer Goods *...(62.0%) | 129.5 | 124.4 | 127.6 | 129.3 | 129.4 | 127.6 | 2.7 |
| Production of Equipment *...( 5.7%) | 146.4 | 142.8 | 151.0 | 152.8 | 153.4 | 148.5 | 4.0 |
| Production of Materials *...(32.1%) | 114.5 | 113.9 | 119.5 | 120.1 | 120.6 | 117.5 | 3.3 |
| Trend Factor | | | | Not Available | | | |
| NEWSPRINT MARKETS | | | August | September | October | | |
| Consumption by Publishers - Tons (000)..... | 12,773 | 13,158 | 1,147 | 1,157 | 1,243 | 13,409 | 2.9 |
| Newspaper Pub. and Printing Empl. Total(000)... | 454 | 461 | 462 | 463 | 467 | 460 | 0.0 |
| PRINTING AND FINE PAPER MARKETS | | | | | | | |
| MAGAZINE ADVERTISING PAGES (PIB, Inc.)..... | 155,545 | 153,893 | 10,966 | 14,756 | 15,878 | 150,447 | 0.7 |
| WHOLESALERS SALES AND INVENTORIES (Million $) | | | | | | | |
| Total Paper & Pap. Prdcts.,ex Wallpaper..Sales | 36,798 | 40,521 | 4,029 | 4,226 | 4,489 | 46,469 | 15.0 |
| Inventories (End of Period). | 3,267 | 3,552 | 3,470 | 3,515 | 3,544 | 3,544 | 5.1 |
| FIBRE BOX DATA (Fibre Box Association) | | | September | October | November | | |
| Fibre Box Shipments (Million square feet)..... | 267,451 | 283,921 | 25,853 | 27,712 | 23,281 | 299,192 | 4.7 |
| Container'bd Inventory at Mill & Plant(000Tons). | 2,549 | 2,238 | 2,421 | 2,352 | 2,426 | 2,426 | 13.7 |
| RETAIL TRADE (Million $) | | | September | October | November | | |
| Total Retail Sales *..... | 1,372,853 | 1,445,568 | 126,798 | 125,645 | 125,855 | 1,503,129 | 4.5 |
| Nondurable Goods Stores Sales *..... | 859,316 | 882,505 | 77,084 | 77,246 | 77,259 | 923,255 | 4.8 |
| GENERAL ECONOMIC DATA | | | September | October | November | | |
| TOTAL INDUSTRIAL PRODUCTION (INDEX 1977 = 100)*.. | 124.2 | 125.1 | 130.9 | 132 | 132.5 | 129.3 | 3.5 |
| PRODUCER PRICES(ALL COMMODITIES)(INDEX 1967=100). | 308.7 | 299.8 | 310.4 | 311.4 | 311.9 | 307.3 | 2.4 |
| CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)... | 322.2 | 328.4 | 344.4 | 345.3 | 345.8 | 339.9 | 3.6 |
| | | | August | September | Octooer | | |
| TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).. | 531 | 586 | 597.4 | 604.7 | 608.8 | 608.8 | 5.1 |
| GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$).. | | | 1987 Q1 | 1987 Q2 | 1987 Q3 | | |
| G.N.P. or Expenditure - Current $..... | 4,010 | 4,235 | 4,378 | 4,445 | 4,524 | 4,449 | 5.5 |
| G.N.P. or Expenditure - 1982 $..... | 3,607 | 3,713 | 3,772 | 3,795 | 3,836 | 3,801 | 2.5 |

lb/capita

Pap&Papbd Othr Totl Popul(mil)

.a - 620 + 18 = 638 239.3

.b - 645 + 17 = 662 241.6

.c - 668 + 17 = 685 243.8

.e - estimated by API

f - Wood Pulp Production excludes def., explo. & scrngs.

g - Adjusted for holiday shutdowns

h - Adjusted to Conform with API Division data

j - Census unpublished data; standard dev. = 6 - 8%

Q - Quarter

R - Revised

y - Full year estim. by U.S. Dept. of Com.

* - Seasonally Adjusted.